

**WHAT IS CLAIMED IS:**

1. A coating system comprising organic polyisocyanates with at least two isocyanate groups, at least difunctional alcohols that are not present in their O-H acid form, and a catalyst to accelerate the alcohol-isocyanate reaction.  
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2. The coating system according to claim 1, wherein unsaturated enol ethers are used as a blocking agent for the alcohol component.  
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3. The coating system according to claim 1, wherein dihydropyran or dihydrofuran are used as a blocking agent for the alcohol component.
4. The coating system according to claim 1, wherein Lewis acids are used as the catalyst.  
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5. The coating system according to claim 4, wherein zinc-2-ethyl hexanoate or zirconium-2-ethyl hexanoate are used as the catalyst.
- 20 6. A process for producing polyurethane paint films comprising reacting blocked alcohols with polyisocyanates in the presence of one or more catalysts.
7. The process according to claim 6, wherein unsaturated enol ethers are used as blocking agent for the blocked alcohol component.  
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8. The process according to claim 6, wherein the blocking agent is selected from dihydropyran and dihydrofuran.

9. A surface coating obtained from the coating system according to claim 1.
10. A substrate coated with the surface coating according to claim 9.
- 5 11. The coating system according to claim 2, wherein Lewis acids are used as the catalyst.
12. The coating system according to claim 3, wherein Lewis acids are used as the catalyst.
- 10 13. The coating system according to claim 11, wherein zinc-2-ethyl hexanoate or zirconium-2-ethyl hexanoate are used as the catalyst.
14. The coating system according to claim 12, wherein zinc-2-ethyl hexanoate or zirconium-2-ethyl hexanoate are used as the catalyst.
- 15 15. The process according to claim 7, wherein the blocking agent is selected from dihydropyran and dihydrofuran.
- 20 16. A surface coating obtained from the coating system according to claim 2.
17. A substrate coated with the surface coating according to claim 16.
18. A surface coating obtained from the coating system according to claim 3.

19. A substrate coated with the surface coating according to claim 18.
20. A surface coating obtained from the coating system according to claim 4.
- 5 21. A substrate coated with the surface coating according to claim 18.
22. A surface coating obtained from the coating system according to claim 5.
23. A substrate coated with the surface coating according to claim 22.